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(71)Applicant : CANON INC

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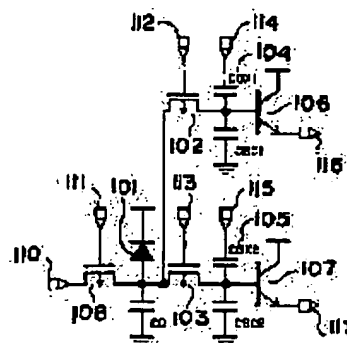
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(54) PHOTOELECTRIC CONVERSION DEVICE

(57)Abstract:

PURPOSE: To dispense with a memory such as a frame memory provided outside by a method wherein photoelectric conversion elements each composed of memory means connected to photodiodes which carry out a photoelectric conversion action through the intermediary of a switching means are provided.

CONSTITUTION: Low level pulses are applied to terminal 112 and 113 to turn Trs 102 and 103 ON, a photodiode 101 and memory devices 106 and 107 are turned ON, and then low level pulses are applied to a terminal 111. Then, after a voltage is applied to terminals 116 and 117, high level pulses are applied to terminals 114 and 115 to reset the memory devices 106 and 107. Thereafter, the photodetecting part of the photodiode 101 is made to start its photocarrier storing action. After photocarriers are stored in the photodiode 101, light signals are transferred centering on the memory device 106, and the Tr 102 is turned OFF to hold photocarriers. By this setup, a memory means such as a frame memory provided outside can be dispensed with, and a photoelectric conversion device of this constitution can be simplified in a system.



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